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मानक

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IS 12189 (1987): Sheep Spreaders [FAD 18: Slaughter House and Meat Industry]



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“Knowledge is such a treasure which cannot be stolen”



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## Indian Standard

SPECIFICATION FOR  
SHEEP SPREADERS

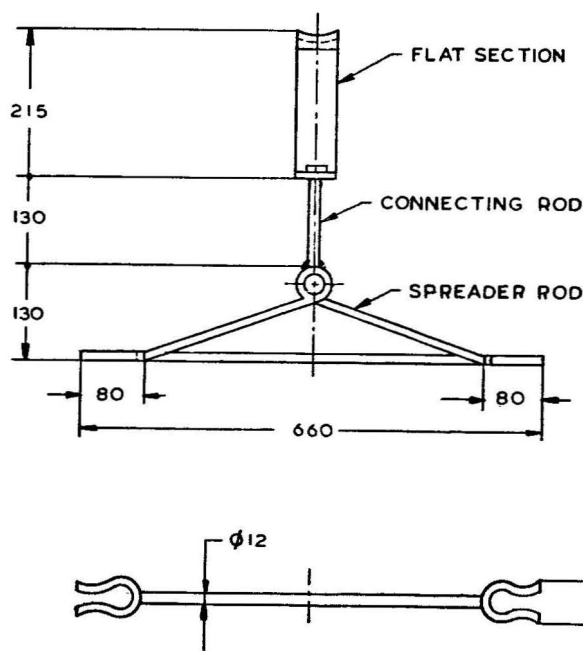
**1. Scope** — Specifies material, dimensions and other requirements for sheep spreaders.

**2. Description** — Sheep spreader shall consist of a spreader rod with a connecting rod at the centre attached to a flat section with swivelling arrangement to suit the sliding rails.

**3. Material** — The flat section and the connecting rod shall be made from cast steel [see IS:1030-1982 Specification for carbon steel castings for general engineering purposes (*third revision*)] and the spreader rod shall be made from mild steel [see IS:226-1975 Specification for structural steel (standard quality) (*fifth revision*)], or stainless steel (see IS:6603-1972 Specification for stainless steel bars and flats).

#### 4. Shape and Dimensions

**4.1** The shape and dimensions of the sheep spreaders shall be as given in Fig. 1.



All dimensions in millimetres.

FIG. 1 SPECIFICATION FOR SHEEP SPREADER

**4.1.1** The tolerance for various dimensions shall be  $\pm 5$  percent.

#### 5. Constructional Requirements

**5.1** The spreader rod shall be smoothly welded with the connecting rod and the shape at the end shall be as given in Fig. 1.

**5.2** The spreader rod shall not deform when loaded with a mass of 100 kg.

**5.3** The ends of the spreader rod shall be smoothly rounded.

**5.4** The flat section shall be selected taking into consideration the dimensions of the overhead rail system (see IS:6628-1972 Specification for slide rails for use in abattoirs). The flat section shall make minimum contact on the rail to ensure easy mobility.

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**6. Workmanship and Finish**

**6.1** The spreader rod shall hang horizontally.

**6.2** The sheep spreaders shall be free from flaws, burrs, splinters, pits and sharp edges. The mild steel spreader rods shall be hot dip galvanized for protection from rust and corrosion.

**7. Marking**

**7.1** Each sheep spreader shall be marked with the following information at a convenient place:

- a) Manufacturer's name or trade-mark, if any;
- b) Year of manufacture; and
- c) Batch or code number.

**7.2 Standard Marking** — Details available with the Bureau of Indian Standards.

**8. Packing** — The sheep spreaders shall be packed for safe handling in transit as agreed to between the manufacturer and the purchaser.

**9. Sampling** — The method for drawing representative samples of sheep spreaders and the criteria for conformity shall be as given in Appendix A.

**APPENDIX A**

( Clause 9 )

**SAMPLING OF SHEEP SPREADERS****A-1. Scale of Sampling**

**A-1.1 Lot** — In any consignment of the sheep spreaders of the same type, shape, size and belonging to the same batch of manufacture, shall be grouped together to constitute a lot.

**A-1.2** For ascertaining the conformity of the material to the requirements of this specification, samples shall be tested from each lot separately.

**A-1.3** The number of sheep spreaders to be selected from a lot shall depend on the size of the lot and shall be according to col 1 and 2 of Table 1.

**TABLE 1 SCALE OF SAMPLING AND PERMISSIBLE NUMBER OF DEFECTIVES**

( Clauses A-1.3, A-2.1 and A-2.2 )

Number of Sheep Spreaders in the Lot	For Visual and Dimensional Requirements		Number of Spreaders in the Sub-Sample for Bend Test
	Number of Spreaders to be Selected	Permissible Number of Defectives	
(1)	(2)	(3)	(4)
Up to 100	5	0	2
101 to 300	13	1	2
301 to 500	32	3	3
501 to 1 000	50	5	5
1 001 and above	80	7	8

**A-1.3.1** These sheep spreaders shall be selected at random from the lot. In order to ensure the randomness of selection, procedures given in IS:4905-1968 'Methods for random sampling', may be followed.

**A-2. Number of Tests and Criteria for Conformity**

**A-2.1** All the sheep spreaders selected according to **A-1.3** shall be examined for all the visual and dimensional requirements ( see 4.1, 5.1, 5.3, 5.4 and 6 ). A spreader failing to satisfy any one or more of these requirements shall be considered as defective. The lot shall be considered as conforming to these requirements if the number of defectives found in the sample is less than or equal to the corresponding number of permissible number of defectives given in col 3 of Table 1.

**A-2.2** The lot having been found satisfactory according to **A-2.1** shall be further subjected to bend test given in **5.2**. For this purpose, a sub-sample of size given in col 4 of Table 1 shall be taken from the lot. These hooks may be selected from those already examined according to **A-2.1** and found satisfactory. The lot shall be declared as conforming to the requirements of this specification if none of the spreaders subjected to the bend test fails to satisfy the requirements of this test.

### **EXPLANATORY NOTE**

Sheep spreaders are used for raising the front part of carcasses in an abattoir for dressing and further processing of the carcasses.